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Industrial Base Mobilization: Recommendations for Improvement "Unheeded"

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ABSTRACT

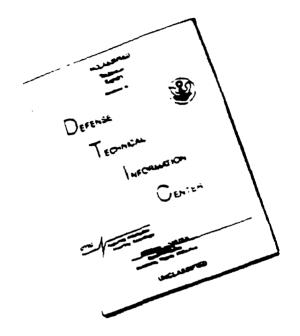
1992 Executive Research Project RS3c

Industrial Base Mobilization:
Recommendations for
Improvement "Unheeded"

This paper reviews many of the more significant studies (since 1988) of the viability of the United States Defense Industrial Base. The intent is to determine which recommendations from those studies have not been implemented and why they have not. Over 27% of the findings have not been implemented and approximately another 30% have been barely started. Reasons for "unheeded recommendations" are many but can not be stated with any degree of certainty; most fall within the parameters of Decision Making problems studied at the Industrial College of the Armed Forces.

Lieutenant Colonel Larry D. Leighton U.S. Army

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INDUSTRIAL BASE MOBILIZATION: RECOMMENDATIONS FOR IMPROVEMENT "UNHEEDED"

INTRODUCTION

The health of the "industria" Base" is essential to the health of America.

The "Delegge industrial Base" of some debate the distinction, but for the purpose of this paper, they are interchangeable. (1) of has been and continues to be of concern, particularly as it is a major component of National Security. Given its importance, there have been numerous discussions, debates, and studies of and CAF research papers of concerning both the "industrial Base" and the "Defense Industrial Base."

These studies are generally discussed as having negative conclusions: the "base" is on the cecline, the government isn't doing enough to save "critical industries", we need an "industrial policy", "just another study", governments in other countries do more, the capability to mobilize for "the long haul" won't be there when it is needed, etc. Of even more concern is the negative perception held by many that no matter how many studies there have been or how many more there are, the likelihood for significant improvement is low {2}.

T' e paper will:

Determine which of the recommendations from provious studies have not been implemented (by government and industry) and more importantly, the rationale for not implementing them.

Determine the likelihood of implementing these or similar recommendations to improve the Defense industrial Base as we define the new process of Treconstitution on the ognitive changing works a testion and domestic process of the

DESINITIONS

ingustrial base, as defined by DoD, is the capacity of industry to
produce goods and services that DoD needs to meet its mission
requirements {4}.

Surge is a term used to refer to the expansion of military production in a peacetime mode, without the declaration of a national emergency.

Mobilization is used to refer to the rapid expansion of military production to meet material demands in a war fighting situation

(5). A broader definition envisions mobilization as referring to a

broad array of conditions in which national resources would be applied to address a national crisis, including non-military situations.

HISTORY

best place from which to start studying a subject. A succinct treatment of the subject, jogustria! Mobilization: The Relevant business, jogustria! Mobilization: The Relevant business, was done in 1983 by Roderick E. Vawter while a Section Fellow with the Mobilization Concepts Development Center of the National Defense University. In light of Mr. Vawter's extensive work and in keaping with the intent of this paper, only a few of the more significant aspects of industrial Base Mobilization history will be highlighted here. Its purpose is to acquaint the reader with a general sense of the "management" of the base and how it has evolved over time. Most industrial mobilization histories focus primarity on World War II, its antecedents of World War II, and the period between those wars [6]. The next few pages will highlight items from the World War II, Korea, Viet Nam. the Cold War, and the Gulf War.

The period between World War i and World War it

This period provides the first glampse of what has been, and remains what I consider to be, the most glaring problem in incustr a base mobilization — the lack of defined requirements about what is needed and when [7].

As a result of this recognizer shortcoming, lack of requirements. Congress passed the National Defense Act of 1920, changing the Assistant Secretary of War with The assurance of adequate processor of mobilization of material and industrial organizations essent at towartime needs." This Act established the Planning Shanch with hither Office of the Assistant Secretary of War, the Army industrial College, and the Army and Navy Munitions Board [8].

The planning system established by the Act resulted in the first series of Industrial Mobilization Plans (IMP).

World War 11:

The most vivid recollections people have about industry efforts in World War II seem to be the large amounts of men and material that

were produced. To some, it even seems that that production was the sole reason the war was won. What is usually overlooked is:

The amount of trial and error needed before those results were effective.

The amount of lead time required (the US was deeply involved in "lend lease" before we became involved in the war directly).

The product on rates for all military equipment hit truly produglous levels, commensurate with the growth of the defense . share of the GNP from 11 percent in 1941 to 45 percent in 1944, after which it fell to 39 percent in 1945 (9).

The main message after this period was that good prior planning and a base. The defense industry are essential to any rapid industrial mobilization.

The period Following World War !!:

For most of us the period immediately following World War II is pretty vivid, either because we lived through it, we have heard

countiess stories from those who did, or we have studied cases illustrating its various aspects, particularly true due to pressure to reduce the military budget after the end a War. There will be more discussion on this point later in this study.

One significant item concerning the reduction in military budgets in the face of the war's end was the question about the maintenance of industrial and other pritical facilities not immediately needed. This is a concern in today's draw down and budgetary constraints. As one example of the optential significance of this issue, it was estimated that the annual expenditure of \$10 m like for the b years prior to the Eorean War would have saved between \$150 and \$300 million in relabilitation costs actually incurred to make facilities usable for the Eorean War 1001.

Several key legislative actions were passed to directly impact the ability to achieve mobilization readiness. Many of these still exist today. They are:

The Strategic and Critical Materials Stockpiling Act of 1946 provided for the acquisition and maintenance of the strategic stockpile.

The National Security Act of 1947 created the National Securit. Resources Board (NSRE) charged with the coordination of military, industrial, and division mobilization for the entire executive department.

The Armed Fonces Producement Act of 1947 provided the means of protecting and building up an industrial base by excepting contracts from competitive bidding when it was determined that facilities are suppliers about a be retained in the interests of hat onal defense.

The National indistrial Reserve Act of 1949 authorized the retention of surplus math he tools, manufacturing equipment, and industrial plants required to supply the needs of the armed forces for emergency production.

The Korean War Era:

The Korean War changed the major focus of mobilization from strictly responding to military needs for a war to one of establishing

mattery power capable of errestring Seviet designs of world domination — our "Containment Policy". The key document that caused and outlined this fundamental change or attitude was NSC-98, 3. Report to the National Security Council, dated 14 April 1950.

Written at the direction of President Truman, it provided backgroup information and guidance on nuclear weapons policy. President Truman never explicitly approved NSC-68 but it clearly became the one lecture framework for inture programs.

Ancountry on 1950 was enacted. It's stated purpose was to oppose aggression and promits peace, and to develop and maintain whatever mulitary are economic strength necessary to party out this purpose.

This Act was designed to stimulate expansion of capacity by a broad variety of incentives and assistance, with primary emphasis or expansion of private capacity while minimizing the outlay of Federa funds and restricting incentives to cases within the scope of defense mobilization [11].

The Office of Defense Mobilization (ODM) was created 16 December 1950. The director was authorized "to direct, control, and

Government including but not limited to product on, procurement, manpower stabilization and transport activities [12].

Probably the most important mobilization goals ever set forth were listed in ODM's first quarterly report to the President. They are still critical to the debate over the size, criticality, and supportability of the industrial bases. Two key provisions are:

- "3. To develop our basic resources and to expand our industrial capacity so that in the long run we may continue as large a military program as may be necessary and at the same time improve our standard of living -- or in case of all out war so that we may have a powerful industrial base.
- 4. Consistent with the above objective, to maintain a healthy and productive civilian economy" [13].

The mobilization base took on an expanded definition with Defense Mobilization Order No. 23, issued by the Director of Defense Mobilization on 23 November 1952:

The mobilization base is that capacity available to permit happone expansion of production, sufficient to meet military, war supporting, essential divilian, and export requirements in the event of a full-scale war. It includes such elements as essential services, food, naw materials, facilities, production equipment, organization and manpower. [14].

known as the Vance Committee, released its report of the issues of the machine too: industry. That report has been a cornerstone of the management of the industrial base since that time. It basically established the precedence for "stockpiling" (and the still orgoing debate about what are appropriate levels) and stressed increasing productive capacity — maintaining it. An extract of the Committee's interim report anticulated the policy that became the basis of DoD incustrial base planning until the 1970's. It also provided a mobilization rationale and identified some problems that are as important today as they were in 1953:

If an adequate defense position has to be maintained over an extended period of time, as now seems to be the case, and if

this is to be done without prohibitive cost, a larger productive capacity to produce military end items must be created and thereafter maintained in such condition that it can be quickly expanded in the event of an emergency merely by adding manpower and hours of operation [15].

In a situation requiring long-term readiness for war, the creation and maintenance of ample production capacity is not only less costly and more practical than depending chiefly on reserves of military material, it also represents a greater contribution to national security {16}.

Maintenance of the base had really begun to be recognized as essential to National Security in 1953. There was wide spread acceptance of the principle that capacity was less costly than stockpiling. Unfortunately, little attention had been given to the costs of maintaining this capacity in a condition of readiness of it was to provide benefit in the future.

The period between Sorea and Viot Nami

During this period, we had a very definite policy of "picking winners and losers", an analogy that referred to awarding contracts to companies that the government wanted to survive versus those that they really didn't care if they were competitive or not. A system that the current administration publicity is against, but a system that is nevertheless, informally in effect.

The policy was authorized by the Defense Production Act and was the Priorities and Aliccation Program. The existence of the system at M-Day was expected to minimuse costly decays in rapid conversion to military production. 1977. Some significant points of the PAP are listed here:

The services were directed to identify key end-items for which detailed mobilization planning would be accomplished. This direction resulted in the Preferential Planning List (PPL), a list of military items deemed essential to national survival.

The Industry Preparedness Measures program was aimed at identifying and eliminating mobilization and production bottlenecks prior to the emergency.

The other most significant event during this period was the Force-in-Being concept adopted by the Air Force which was predicated on the assumption that the next war would be a "come as you are war".

The Army was still planning on stockpiling months of supplies while the Air force went to a few days based on the differences in the anticipated length of the next war.

The Air Force d d no mobilization planning from 1958 to 1967.

The combination of this change in A r Horde planning and the difference between then and the Army resulted in mixed's drais being sent to industry with a corresponding degradation in planning efforts. That degradation is still seen and feet today.

The Viet Nam Era:

Key points in Industrial Base Planning and Mobilization during this time are probably summarized best in Monograph 12 of the 1970 Joint Logistics Review Board's (JLRB) comprehensive examination of logistical support in the Viet Nam era {18}.

We thout valid, stable resultements it is vertically impossible to play with industry or maintain the production base in at acceptable state of read ness.

The JLRB noted that not only was a national emergency avoided (there was no declaration of national emergency), but there was also an effort made to use competitive producement to the maxim of extent possible to reduce the doot of the war. These two elements complined effectively to invalidate at the previous products complined effectively to invalidate at the previous

The Assistant Secretary of Defense for installiations and Logistics had noted that studies had revealed unbalanced mobilization planning, outdated planning agreements, inadequate emphasis on the need for planning, and inadequate following the Government [20]:

Organizations other than the JLRR were also doing studies, releasing reports, and generally expressing their concern about defense industrial mobilization problems about this time. The Industry Advisory Council (IAC), which consisted of 24 industry members who met three times a year with the Secretary of Defense and other

prominent officials, and the National Security industrial Association were among the most prominent.

Unless some mobilization base planning is factored into the cutbacks in defense programs, many essential technical and production capabilities in industry will cease to be available [21].

In November 1970, the Deputy Secretary of Defense chartered a subcommittee of the PAC to study and make recommendations on the base $\{22\}$.

The Cold War Era:

The Cold War Era which actually had its beginnings in the 40's build up for Korea, began with the "containment" policy and was responsible for alternating "build ups" and "draw-downs" throughout the 50's, 60's, and 70's. In the 80's, DoD underwent a massive build up, the largest since WW II. A conscious effort was made to rebuild the resource mobilization processes and organization through the Emergency Mobilization Preparedness Board (EMPB), National Security

Decision Directive (NSDT) #47, establishment of the National Security Emergency Preparedress Pricinities (NSEPP), and several major motilization exercises to test dapabilities patterned after Nifty Nugget and Proud Spinit.

industrial Preparedness Planning (IPP) focused on stockpining end items (Pre-positioned Overseas Movement of CONUS Unit Sets, POMCUS) and repair parts. Surge was generally understood to be the expansion of military production in the absence of a formally declared national emergency (ICS).

The Gulf War:

The most significant event during the war, as it pertains to industrial motification, was the labse of the Defense Production Act in October 1990. Although serious shortcomings could have resulted from this lapse of legislative authority, effects were minimized by aggressive action officers and cooperative contractors with the spirit of "patriotic good will".

Early in January 1991, the President issued Executive Order 12742 on "National Security Industrial Responsiveness". It gave National

restrictions. A though

The lack of firm requirements in both magnitude and timing continued to be a major adverse factor in developing various crisis responses from a/κ , agencies and the contractor community allike = 1241.

As a result of the "Gult War." surge has come to mear ithe accelerated production, maintenance, and repair of logistics surport services to meet contingencies short of a declared national emergency utilizing existing facilities (251).

THE STUDIES

One problem with reviewing studies and reports is that there appears to be no one central repository for the results. Numerous agencies, Congressional leaders, and special interest groups have all done their own studies over the years {26}. This lack of a central repository is indicative of the lack of a concerted effort by any

agency, whether it he the Deva thent . Defense if the teneral finergency Variagement Apency, to what yet and proof that agency to whentather contact follow up on act one taken to determine effectiveness.

Without question, the one must universally recognized study of the inductions. Hase was completed in June of 1986 by the "Packard Colombias on" (the President's Bius import, Augustifon Exampless) and Determs Wanagement). The commissions report, Augustifon Exampless recommended sweeping changes to both the management and practice of defense pusiness in the Grital States. Its firs report is the connenstone of the industries base reports.

The following reports are a su considered significant:

<u>Doistering Defense industrial Competitiveness</u> (B(C), DcT Study, July 1988: Identified actions recessary to prepare DoD to better deal with the dynamics of the global marketplace.

Lifeline in Danger: An Assessment of the United States Defense Industrial Base (Lifeline), Air Force Association and the US Naval Institute Military Database, September 1988: identifies

charlenges to American industry and its sipport of national defense.

The Defense Industrial and Technology Base, the Defense Science Board (DSB), October 1988: assessed issues relating to the US industrial and technology base and resulting policy implications.

Picking Up the Pace: The Commercial Spallenge to American Innovation (Pace). Count of or Competitiveness, October 1988: world the ability of the US to maintain its overall world lead in science and technology development, and in the commercial coation of that technology.

Begart Outlining U.S. Government Policy Options Affecting.

Defense Trade and the U.S. Industrial Base, Defense Policy

Advisory Committee or Trade (DPACT), November 1988: suggested the outline for a more constent, long term defense trade and industrial base policy and more cooperative industry/Government relations.

Willis Paper. See on Tayl Force of Human Pesources Managems .

In Science and Technology (58%), 1988; recommonder more

Porcepth assessment of Del work force and suggested methods for resolving skill and educational stortfalls.

Ansenal of Demogracy In the Sace of Change: Economic Pericy for Industrial Monthigation in the Sace of Change: Economic Pericy Incuments Monthigation in the Secence for the Recens for th

Bedesized Defense. Busines the Transition to the Eutore U.S. Defense industrial Sage. July 198 : 2.5. Congress. Office of Technology Assessment examines emerging U.S. national security requirements, and trends in the defense technology and industrial base (DTIB), and proposes some desirable characteristics for the future base.

Lifeline Adrift, The Defense Industrial Base in the 1990's, A
Report by the Air Force Association, September 1991: points out

that the Guif War did not press the industrial base for excanded production, that the government appears only to have a loose concept of what it expects from the DTIE, and government efforts do not address the problems comprehensively [27].

THE (FINDINGS AND) RECOMMENDATIONS

General:

Many of the recommendations and issues of the above reports are similar or hearly identical. The Packard, BIC, and DSB reports are the most direculated reports. Although each major study/review is different because of its charter and sponsor, all findings and recommendations can generally be grouped into three broad categories:

variety of diverse recommendations concerning the domestic
U.S. industria: community. Those recommendations address
industrial capability, industrial base information,
coordinated R&D planning and execution, and technology
development concerns.

- o Appliantion saves. These rayed include acc. o tean prince, defense budgeting and a annuage, .cD/-ndustry rolations. The use of commercial liter and practices, and eth cs and self-governance.
- Support of national definite provided by the U.S. educational and R&D systems. It includes recommendations addressing the issues of work force skill and preparedness and the level and poordination of U.S. F&D efforts. (188).

To evaluate the report findings, recommendations, and actions taken, personnel in OSD, the Logist of Management institute (LV.), and the National Defense of the ty (NDO) were interviewed and the General Accounting Office assessment of the Packerd Commission incrementation was reviewed.

In definitions below were used in developing the summary chart on the following page:

o implemented (I). The review showed that the lead agency (ies) have taken the recommended action.

- o Partial (P). Some action has been taken by the lead agency.

 The complete intent of the recommendation has not been achieved.
- o Unheeded (U). No action has been taken at all or the recommended action has been delayed or postponed.

RECOMMENDATION SUMMARY (by report)												
STUDY	TECHNOLOGY &			ACQUIS TION			EDUCATION 8 KNOWLEDGE					
NAME										TOTAL		
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The recommendations can also be grouped into the broad general areas of focus:

- na Organizationar krangez; orezt hunz **hew age**nky on utuby nicul. Redefiktung scope of respons bilisties, et .
- a Policy changes; cresting new policies, e in hat he or revising existing policies and regulations.
- o information processing; analyzing existing data and making appropriate recommediations, ineating new data bases to to ledt information or the industrial base, improving information flow aming industrial congress, and the executive.

PECOMMENDATION SUMMARY /EN area:												
AREA	3 YOOLUVHDET						EDUCATION 5					
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POLICY	Đ.	2	1	10	4.	10	0	a	:	15	.0	12
INFO	0	2	3	0	1	0	0	0	0	o	3	3
TOTAL	6	5	5	10	5	11	0	5	1	16	15	17

These recommendations and groupings are representative of the strender reports as well. The next section will list the "unheeded recommendations summarized above followed by the current status. The LMI report lists all recommendations and status. (29).

ORGANIZATION CHANGES:

e Establish a permane t cabinet revel mechanish to betermine industrial and technology base capabilities, compare them with rational secon to injectives, and develop rational primov instructives to recurs technology base capabilities and national security objectives.

There are no current in that wes to develop a Cabinet-level mechanism for determining industrial and technology base capabilities.

o The Joint Requirements and Management Board (JRMB) should be co-chaired by the USD(A) and the Vice Chairman of the JCS and should play an active and important role in all joint programs and in appropriate Service programs by defining weapons requirements, selecting programs for development, and

providing themety an early thade of the tween cus s and performance.

DOD has restructured a URMS in the form of the DAL. However, the DAS's functions and responsibilities do not really reflect those envisioned by the Packard Commission. The major problem is proteived to be a disconnect between decision-making and programmatic responsibilities.

POLICY LEANGES.

e Reverse the deterionation of the maritime segment of the industrial base to ensure the credibility of our convent ona deterrent.

As actions in progress.

o Start Defense planning with a comprehensive statement of national security objectives and priorities, based on recommendations of the National Security Council (NSC).

The status of the recommendation is unclear to most observers.

While DoD feels it receives its guidance in the form of budget levels, many people feel that this is not the sort of comprehensive guidance intended by the Packard Commission.

The President should select a particular military program and the associated budget level, which would be binding on all elements of the Administration. DoD would then develor a 5-year defense plan and a 2-year defense busget sonforming to the President's determination.

The President has not yet provided any dinding military program that is substantively different from past guidanue.

The President should issue provisional 5-year budget levels to DoC. These budget levels would reflect competing demands on the Federal budget and projected gross national product and revenues and would come from the recommendations of the NSC and the OMB.

DoD has always received 5-year guidance from OMB, but it is not clear that the outyear guidance has changed substantially as a result of the Packard Commission recommendations.

a Dob undored present the budget to Congress or the pas out the pa

DoD has not pursued an operationally criented budget because Congress had not changed its approach to one that would arrow such a budget.

Expand the use of multi-year producement for high-priority systems.

Congress has should guide thes for programs of give a formulti-year procurement and has been rejuntant to relationse standards.

evaluation technique in acquisition programs. Assess DoD's progress in applying this concept.

Although current legislation and regulations allow DoD to consider factors other than cost in awarding contracts, these provisions are not as widely used as they might be (about 20)

percent of contracts awarded in FY88 were based on technical competence as well as price). The Air Force is establishing a program for evaluating contractor past performance and factoring that performance into considerations for current awards; this program could eventually be applied throughout DoD. An interesting note is that, on the basis of the Packard Commission recommendation to review directives and eliminate unnecessary ones. DoD eliminated its old Contractor Performance Evaluation System.

process past competition principally on total quality and good business practices, not just on competition for lowest costs.

See status for recommendation just above.

substantially increased use of commercial-style competition, relying on inherent market forces instead of government intervention. To be truly effective, such competition should emphasize quality and established performance as well as price, particularly for R&D and for professional services.

so that commercial commetition and award process may be used more regularly.

o Vigorously pursue efforts to increase use of commercial manufacturing process and product specifications.

Comprehensively identify barriers to integrated manufacturing of commercial and military products and examine alternative practices that might facilitate such integration.

The National Defense Stockhille is trying to use commercially oriented purchasing specifications and standards. Related initiatives emphasize using commercial items as much as possible, but none of the current efforts are taking a comprehensive look at how to integrate commercial and Government manufacturing.

O Recognize the delicate and necessary balance between the Government's requirement for data and the benefit to the nation that comes from protecting the private sector's proprietary rights.

DoD does not particularly care about industry's ability to commercialize technology. Therefore, the issue of data rights becomes one of whether or not acquiring data rights is necessary for DoD to economically retain unrestricted access to technology.

o Provide seed money for an instrumented factory program for industries where there are large numbers of companies and significant non-defense applications.

DoD has not budgeted funds for research facilities since the 1960's, and the physical plants are deteriorating. Of \$1 billion in FY90 R&D funds, Congress has earmarked \$130 million for investment in Federal, industry, and university research facilities. While this supports the noted objective, DoD feels that it is inappropriate to use R&D funds for facility capital investment.

INFORMATION CHANGES:

o Establish a substantial analytic capability within the legislative branch dedicated exclusively to objective analysis of the impact of existing and proposed scisiation of the U.S. manufactoring base and its ability to compete internationally.

DoD cannot implement this recommendation alone. While OSD is developing this analytic dapability. Congress must show interest in developing its own dapability.

Reasons for Universed Becommences upsi:

The recommendations indicate that despite the number of the stature of the group (or Complission), there are no simple answers to this complex issue of the "incustrial base." All of the recommendations are relatively proad (mostly by design: require participation and cooperation from more than one agency, ad will take time to indicent and monitor (to determine their effectiveness).

The previous charts indicate that acquisition policy (and procedures) is generally regarded as the area needing the most improvement (64% of all recommendations are in this area). It is also probably the most complex, requires the most cooperation between the Executive and the Legislative branches, and has the most direct impact on industry procedures.

Reasons for not implementing the recommendations ("unheeded") will be discussed on the following pages and can be grouped into five general areas:

- o Lack of Review
- b Lack of Accountability
- a Lack of Specifics
- c Lack of Communication
- o Lack of Vision

Lack_of_Beview:

As discussed earlier in this paper, there is no one office charged with the responsibility for receiving, analyzing, and evaluating the many and varied studies of and recommendations made concerning the industrial base. This lack of a focal point is indicative of the perceived general lack of concern over the National Competitiveness

insustrial base. In general, the reports have not been studied with any sort of systemic approach, specifically with the intent of determining which recommendations are in fact viable, prior tozing those that are, and assigning responsibility for action. Although this paper did not intent to make new recommendations of its own. The proper emphasis would be shown if the todal point for the incustrial base was in the National Security Council (NSC which outs across agency rives.

Lack cilAcopubtability:

The next original step in gathing something done is to assign responsibility for the action and then tracking and reporting progress. In the majority of the recommendations, more than one agency or office is involved with the corrective actions needed. A lead agency has to be named, and held accountable (to the focal point), for satisfactory (effective and timely) response. Currently the lead agency is only assigned in some cases (Packard Commission) and in others left to the reader's imagination. This lack of defined specific accountability lends itself to the old saying "it's

not my fallt" of "Trey are robuche y talking about someone else, my area is straight."

Lack of Specifics:

One type of specifics was mentioned under the Lack of Accourtability heading above. Of even more importance is the lack of specifics the recommended corrective aution. Generally, a lot of time and effort is expended up these studies. This time and effort ship is not be wasted in causing the agencies responsible to removent the wheeld (leaving the agency to remeseanch the "problem" to develop the solution). Even if there were an "Office of Review" in the NSC. the lank of specifics in the recommendations would still make morementation difficult.

Lack of Communication:

Lack of Communication is an easy finger to point. In today's society, it is used as a contributing, if not the major factor, in every problem we have. In this case, it is easy to see that the

to the tack of understanding of the problems and the solutions.

to the tack of understanding of the problems and the solutions.

Communication has been noted as a greater challenge than the looming dapanese superiority or the Economic Community because communication breakdown prohibits an effective and efficient respulse. (30).

Lack of Vision

This has been manufested in the raging discussions (and argument) about whether or not we as a factor have an "industrial Policy." Although the Executive current violated while he is in office, the only policy that will be articulated while he is in office. Think that it is dean that their is really insufficient. Eve without "picking winners and losero", a long term strategic vision of what kind of industrial base is envisioned for this country to remain economically competitive internationally is needed. This "vision" would provide the basis for correcting the other shortcomings identified in the studies.

REQUESTIONLEDELINELESTINES

The <u>Lifeline Agrift</u> and the <u>Regestaning Defense</u> reports approach the problem in the same basis nature as the other reports but focus their recommendations more as guidelines that can be used for solid improvements. In today's economic and political uncertainty, chances for significant change in the near future is not 1 kely. We are too focused on the election, the lack of a lwell defined enemy", and the "America first syndromes. This is also reflected in the responses of the respondents to the Ernst and Young survey displayed an overal lack of faith in the prospects for change for most of the 14 major policy issues I sted in their survey. (30).

No study will ever be considerely implemented symply because of the complex nature of the problem(s). It will take a significant event in a lot of people's lives before a coherent plan to improve and maintain the Industria: Base is developed and implemented.

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